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PTO/SB/21 (04-04)

TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	10/777,832
	Filing Date	February 11, 2004
	First Named Inventor	Ikuya Yagisawa
	Art Unit	2818
	Examiner Name	Unassigned
Total Number of Pages in This Submission	Attorney Docket Number	16869P-105400US

ENCLOSURES (Check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance Communication to Technology Center (TC) <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): USPTO form SB08A& SB08B (two pages), copies of one cited foreign patent reference and two cited non-patent references, Return Postcard
SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT		
Firm or Individual name	Townsend and Townsend and Crew LLP Chun-Pok Leung Reg. No. 41,405	
Signature		
Date	10-29-04	

CERTIFICATE OF TRANSMISSION/MAILING			
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.			
Typed or printed name	Roger Hylton		
Signature		Date	10/29/04



PATENT
Attorney Docket No.: 16869P-105400US
Client Reference No.: 340301085US1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

IKUYA YAGISAWA et al.

Application No.: 10/777,832

Filed: February 11, 2004

For: DISK ARRAY OPTIMIZING THE
DRIVE OPERATION TIME

Examiner: Unassigned

Art Unit: 2818

SUPPLEMENTAL INFORMATION
DISCLOSURE STATEMENT UNDER 37
CFR §1.97 and §1.98

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

The references cited on attached form PTO/SB/08A and PTO/SB/08B are being called to the attention of the Examiner. Copies of the cited foreign patent reference and non-patent references are enclosed. It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

As provided for by 37 CFR §1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

Applicant believes that no fee is required for submission of this statement. However, if a fee is required, the Commissioner is authorized to deduct such fee from the

undersigned's Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,



Chun-Pok Leung
Reg. No. 41,405

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60343703 v1



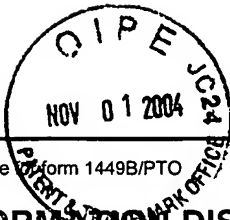
Substitute Form 1449A/R INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known			
		Application Number	10/777,832		
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		Art Unit	2818		
		Examiner Name	Unassigned		
Sheet	1	of	2	Attorney Docket Number	16869P-105400US

U.S. PATENT DOCUMENTS+					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code ² (if known)			
	1	2004/0148477	07-29-2004	Cochran	
	2	2003/0097493	05-22-2003	Weast	
	3	2002/0199129	12-26-2002	Bohrer et al.	
	4	2002/0144057	10-03-2002	Li et al.	
	5	6,425,049	07-23-2002	Yamamoto et al.	
	6	6,378,068	04-23-2002	Foster et al.	
	7	5,964,878	10-12-1999	Ryu	
	8	5,900,007	05-04-1999	Nunnelley et al.	
	9	5,884,087	03-16-1999	White et al.	
	10	5,734,912	03-31-1998	Okuno et al.	
	11	5,637,932	06-10-1997	Korceda et al.	
	12	5,481,733	01-02-1996	Douglis et al.	
	13	5,461,266	10-24-1995	Koreeda et al.	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				
	14	JP	2000-100054	A	04-07-2000	Matsushita Electric		<input checked="" type="checkbox"/>

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² Kind Codes of U.S. Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
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Sheet	2	of	2	Attorney Docket Number	16869P-105400US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	15	GURUMURTHI et al "Reducing Disk Power Consumption in Servers with DRPM," IEEE Computer 36:41-48 (December 2003).	
	16	GURUMURTHI et al "Interplay of Energy and Performance for Disk Arrays Running Transaction Processing Workloads," proceedings of the 2003 IEEE International Symposium on Performance Analysis of Systems and Software (2003 ISPASS), pp.123-132, (March 2003).	

Examiner Signature		Date Considered	
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¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.